

SEATTLE CEMENT PLANT - SEATTLE, WASHINGTON

GENERAL

- . Annual cement capacity - 750,000 tons.
- . Wet process - approximately 23 acres - located within the Seattle city limits on the Duwamish River.
- . Original plant with 150,000 ton capacity built by Pacific Coast Cement Co. in 1928. Lone Star acquired the plant from Superior Portland Cement in 1957 and upgraded the clinker grinding capacity in 1968.
- . Approximately 25 salaried and 87 hourly employees.
- . Waterfront facilities include a concrete wharf for cement barge loading and a conveyor system for receiving clinker, raw materials, or coal.

RAW MATERIALS

- . Limestone is purchased from a quarry on Texada Island, B.C. and received by barge.
- . Sand is purchased locally and from the eastern part of the state and received by truck.
- . Iron source - smelter slag - purchased locally and received by barge.

RAW GRINDING

- . Three ball mills - 29 TPH each - 7' x 45' Traylor - 750 HP drives.
- . Six storage basins - 540 tons each - 3,240 tons.
- . One kiln feed basin - 648 tons.

BURNING AND COOLING

- . Two kilns - 325 TPD each - 11'-3" x 240' Traylor - 100 HP drives.
- . Two clinker coolers - Traylor 9' x 90' rotary - 40 HP drives.
- . One electrostatic precipitator - Western Precipitation - six section - 210,000 CFM.
- . Two coal mills - 10 TPH each - Raymond 533 - 125 HP drives.
- . Kiln exhaust stack gases - 450° F. - 6,000,000 BTU/ton clinker.
- . Coal purchased and barged from Canada - approximately 175 TPD usage - natural gas standby fuel.
- . Inside clinker storage 51,000 tons.

FINISH MILL

- . Two ball mills - 56 TPH each - 12' x 36' F. L. Smidth - 2500 HP drives.
- . Mexican gypsum purchased from local broker.
- . Types of cement produced: Types I, II, III, V, Class G, Masonry.

PACKING AND LOADING

- . Twenty-five cement storage silos - 55,600 tons.
- . Two St. Regis 105 FC packing machines - One St. Regis 107 FC packing machine.
- . Two truck scales - 75 ton and 60 ton - Two truck or railroad car scales - 200 ton and 75 ton.
- . Cement barge loading facilities.

MISCELLANEOUS

- . Laboratory - Microtrac particle size analyzer.
- . Storeroom inventory approximately \$1,100,000.

USEPA SF



1272961